MATERIALS FOR SAFETY WEARING APPAREL

(Second Edition)

WITHDRAWN

COMMERCIAL STANDARD CS129–47

Effective Date for New Production from July 21, 1947

A RECORDED VOLUNTARY STANDARD
OF THE TRADE

UNITED STATES DEPARTMENT OF COMMERCE

W. AVERELL HARRIMAN, Secretary

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COMMERCIAL STANDARDS

Commercial Standards are voluntary standards of the trade developed through concerted action of those directly concerned, and issued by the United States Department of Commerce upon written evidence of their acceptability to the trade. They are initiated by written request from a responsible element of business to the Division of Trade Standards of the National Bureau of Standards. The Division of Trade Standards acts as a coordinating and fact-finding agency in ascertaining the desires of all concerned.

The Federal Government exercises no regulatory authority in the enforcement of Commercial Standards. In accepting a Commercial Standard, the producer, distributor, or user says in effect that he considers it a useful standard of practice, and plans to utilize it as far as practicable in his business, reserving the right to depart from the standard so long as no deception results from such departure. When reference to a Commercial Standard is made in contracts, labels, invoices, or advertising literature, however, the provisions of the standard are enforcible through usual legal channels as a part of the sales contract.

Organized in 1927, the Division of Trade Standards has assisted many industries in the development of Commercial Standards for a wide variety of commodities. A list of previously established Commercial Standards appear herein.

COMMERCIAL STANDARD FOR MATERIALS FOR SAFETY WEARING APPAREL

(Second Edition)

On April 30, 1943, a Recommended Commercial Standard for Materials for Safety Wearing Apparel was presented to those concerned for written acceptance. It was subsequently accepted by the trade, and promulgated by the United States Department of Commerce as Commercial Standard CS129–46.

On March 25, 1947, a revision recommended by the Standing Committee was circulated to producers, distributors, and users for written acceptance. Those concerned have since accepted and approved the Commercial Standard as shown herein.

Project Manager: L. R. Gilbert, Division of Trade Standards
National Bureau of Standards

Technical Advisers: Stewart J. Owen, Jr., Division of Codes and Specifications, National Bureau of Standards
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COMMERCIAL STANDARD CS129–47

for

MATERIALS FOR SAFETY WEARING APPAREL

(SECOND EDITION)

PURPOSE

1. The purpose of this commercial standard is to (a) provide protection to the wearer of safety wearing apparel through the establishment of standard minimum quality requirements and methods of test for the material used in the manufacture of such apparel; (b) serve as a basis for fair competition between manufacturers; and (c) provide a foundation for guaranteeing the quality of the materials used in the manufacture of this product.

SCOPE

2. This commercial standard covers minimum quality requirements for the material used in the manufacture of safety wearing apparel, including:

(a) Asbestos fabrics.
(b) Cotton fabrics, flame-resistant.
(c) Leather.
(d) Woolen fabrics.
(e) Accessory materials.

3. This standard also covers methods of test and methods of labeling to certify or guarantee quality.

MATERIAL SPECIFICATION

ASBESTOS FABRICS

4. *Asbestos fabrics.*—These fabrics used in the general line of safety wearing apparel, including all kinds of hand protectors (including gloves and mittens, lined or unlined, plain or reinforced); all kinds of arm and leg protectors (including sleeves, leggings, spats, etc.); and all kinds of body protectors (including suits, pants, coats, capes, bibs, etc.), shall meet the following requirements:

(a) *Grade of yarn.*—Underwriters' grade asbestos content 80 percent minimum when tested according to methods of test approved by the National Bureau of Standards. (A. S. T. M. designation D299–42).
(b) *Weave and size of yarn.*—Herringbone 2 ply 14 cut; or basket (plain) weave 2 ply 10 cut.
(c) *Minimum weight.*—2¼ pounds per square yard.
(d) *Breaking strength.*—The fabric shall have a minimum breaking strength in conformity with table 1, when tested by the grab method in accordance with procedure approved by the National Bureau of Standards. (Commercial Standard CS59–44).

TABLE 1.—*Breaking strength asbestos fabrics*

Weave	Minimum breaking strength	
	Warp	Filling
Herringbone	165	70
Basket (plain)	145	55

COTTON FABRICS, FLAME-RESISTANT

5. *Heavy duty.*—Flame-resistant cotton fabrics used in those items of safety clothing, including coats, pants, aprons, leggings, and heavy-duty sleeves, which are called upon to perform heavy duty service, shall have minimum quality base cloth as follows:

(a) *Fabric.*—Gray cotton duck, 12 ounces per linear yard in 29-inch widths (14.90 oz/sq yd).

(b) *Weave.*—Plain, two warp threads woven as one with single filling.

6. *Light duty.*—For those items of safety clothing such as coats, pants, sleeves, jumper suits and linings, which perform lighter hazards service, the minimum quality base cloth shall be:

(a) *Fabric.*—Gray cotton duck or suiting 8 ounces to 10 ounces per linear yard in 29-inch widths, (9.93 oz to 12.41 oz/sq yd).

(b) *Weave.*—Plain, with two warp threads woven as one, with single filling.

7. *Construction.*—The construction and strength requirements for the fabrics used in both the heavy duty and lighter duty garments shall be in accordance with table 2, when tested as indicated in Federal Specification CCC–T–191a. The breaking strength of the treated fabrics when tested by the grab method shall be not less than that required for the untreated cloth.

TABLE 2.—*Construction and requirements of cotton fabrics*

Type of fabric	Untreated (gray)							Treated	
	Nominal weight		Minimum weight ounces per square yard	Minimum thread count		Minimum breaking strength 1 by 1 by 3 grab		Minimum breaking strength 1 by 1 by 3 grab	
	Ounces per linear yard 29 inches wide	Ounces per square yard		W[1]	F	W	F	W	F
Duck or suiting	8	9.93	9.68	74	27	130	85	130	85
Duck or suiting	10	12.41	12.10	72	26	160	105	160	105
Duck	12	14.90	14.53	72	25	170	120	170	120

[1] Two threads woven as one.

8. *Treatment.*—The cotton fabrics indicated in table 2 shall be uniformly treated with a suitable nonpoisonous compound to produce a flame-resistant nonirritating cloth, no specimen of which when tested by the methods of test indicated in paragraph 16 shall continue flaming for

more than 2 seconds after the burner flame is withdrawn. The average length of char of the specimens shall not be more than 3½ inches, and the maximum length of char for any one of the specimens shall not be more than 4½ inches.

LEATHER

9. *Tannage.*—All leather used in the manufacture of safety wearing apparel shall be thoroughly chrome tanned, and shall contain not less than 5 percent nor more than 13 percent grease; and not less than 3 percent nor more than 5 percent chromic oxide when tested as indicated in paragraph 17.

10. *Grading tolerance.*—The leather shall be soft and pliable. It shall be free from skive cuts, and open grub holes, although well healed grub scars or brand marks are permitted. The use of shelly or middle splits is permitted only in the manufacture of gauntlets or cuffs.

WOOLEN FABRICS

11. *Weight.*—Woolen fabrics used in the manufacture of safety wearing apparel shall have a minimum weight of 20 ounces per linear yard in 54-inch widths (13.33 oz/sq yd).

12. *Fiber content.*—Woolen fabrics used in the manufacture of safety wearing apparel shall contain no fiber other than wool, reprocessed wool, reused wool, or a combination thereof, as described in the "Wool Products Labeling Act of 1939" (Public No. 850—76th Congress).

ACCESSORY MATERIALS

13. *Metal fasteners.*—The metal fasteners used in the manufacture of safety wearing apparel shall be of such design as to permit ease of adjustment and removal of clothing, and shall be fully protected from corrosion by a tinning, japanning, or plating process when tested according to the method indicated in paragraph 18a.

13a. *Buckles.*—It is recommended that buckles, slides, loops, fasteners, hooks and eyes, eyelets and grommets shall be of sufficiently strong construction to meet the maximum safety requirements.

13b. *Buttons, snap.*—Brass spring type snap buttons with wide flanged studs of large size are recommended as the minimum standard for heavy-duty safety wearing apparel. Ball-and-socket types of snap buttons are acceptable and recommended for service where the sturdier grip of the spring type is unnecessary.

13c. *Rivets.*—Tubular type rivets of a grade that will make a smooth clinch or a capped split type rivet are recommended as the minimum standard for safety wearing apparel.

14. *Thread.*—In the sewing necessary to the manufacture of safety wearing apparel, the lockstitch shall be used with at least four-cord unbleached-cotton thread (table 1, ticket No. 16, Federal Specification for Thread: Cotton V–T–276b), except that asbestos thread of suitable strength may be used for sewing asbestos cloth.

14a. Chain stitching and a lighter weight thread than that indicated in paragraph 14 may be used for linings.

METHODS OF TEST

COTTON FABRICS, FLAME-RESISTANT

15. *Specimens.* For the tests on flame-resistant cotton fabrics, 10 specimens 2 by 12½ inches shall be cut with their long dimensions in

the direction of the warp and 10 in the direction of the filling. Each lot of 10 shall be cut from at least 4 places in the sample.

16. *Procedure.*

16a. The specimens shall be suspended vertically from a clamp covering the upper ½ inch of the length. To protect the specimen from drafts, the apparatus shall be enclosed in a sheet-metal shield 12 inches wide, 12 inches deep and 30 inches high, open at the top, and provided with a vertical sliding glass front. Sufficient room shall be left at the bottom of the front to allow manipulation of the gas burner used in igniting the specimen.

16b. The specimen shall be suspended with its lower end three-fourths of an inch above the top of a Bunsen or Tirrill gas burner, having a tube of three-eighths inch inside diameter, and with the air supply completely shut off, adjusted to give a luminous flame 1½ inches long. The flame is applied vertically near the middle of the width of the lower end of the specimen for 12 seconds, then withdrawn, and the duration of flaming in the specimen noted.

16c. The length of char shall then be determined. It is the distance from the end of the specimen which was exposed to the fire, to the end of the tear made lengthwise of the specimen through the center of the charred area in the following way. Hooks are inserted in the specimen, one on each side of the charred area one-fourth inch in from the adjacent outside edge. The weight specified in table 3 is attached to one hook and applied to the specimen gently, without impact, by raising the other hook. The specimen will tear through the charred-area until fabric strong enough to carry the load is reached.

TABLE 3.—*Tearing weight of charred duck*

Weight per square yard of duck before treating	Tearing weight for determining charred length
	Pound
Up to 15 ounces	0.5
15.01 to 23 ounces	.75

LEATHER

17. *Grease and Chromic Oxide.* In the event of disagreement between buyer and seller as to the methods of test to determine the amount of grease and chromic oxide in leather used in the manufacture of safety wearing apparel, the test methods approved by the National Bureau of Standards shall be used. (Federal Specification KK–A–606).

ACCESSORY MATERIALS

18. *Metal Fasteners.*

18a. *Corrosion test.* In the event of disagreement as to the method of test to determine the degree to which metal fasteners used in the manufacture of safety wearing apparel will withstand corrosion, the test methods approved by the National Bureau of Standards shall be used (Commercial Standard CS85–41).

LABELING

19. When safety wearing apparel is guaranteed to comply with the commercial standard, it is recommended that the following form be used for guarantee on invoices and sales contracts:

> The.....Company declares that the materials in the wearing apparel covered by this invoice (or contract) comply with all the applicable requirements of Commercial Standard CS129–47, for Materials for Safety Wearing Apparel, as issued by the National Bureau of Standards, United States Department of Commerce.

19a. It is also recommended that the minimum weight, and the type of weave (whether herringbone or basket-plain) of the asbestos fabric, and the type of flame-proof fabric (whether heavy or light duty), be indicated in catalogs and price lists and on invoices and sales contracts.

EFFECTIVE DATE

20. The standard is effective for new production from July 21, 1947.

STANDING COMMITTEE

21. The following individuals comprise the membership of the Standing Committee, which is to review, prior to circulation for acceptance, revisions proposed to keep the standard abreast of progress. Comment concerning the standard and suggestions for revision may be addressed to any member of the committee or to the Division of Trade Standards, which acts as secretary for the committee.

E. L. WHEELER, *Chairman*

E. L. WHEELER, F. H. Wheeler Manufacturing Co., 224 West Huron Street, Chicago, Ill.
G. H. SCHAUWEKER, American Optical Co., 1939 Thomas Street, South Bridge, Mass.
DON KIMBALL, The Kimball Safety Products Co., 7314 Wade Park Avenue, Cleveland, Ohio.
I. W. MILLARD, Industrial Gloves Co., 777 Garfield Boulevard, Danville, Ill.
J. T. GRIFFIS, Southern Asbestos Co., Charlotte, N. C.
C. A. TOWNES, A. D. Juilliard & Company, Inc., (Aragon Mills Division), Aragon, Polk County, Ga.
ALEXANDER MORRISON, American Woolen Co., Inc., Lawrence, Mass.
KENNETH E. BELL, A. C. Lawrence Leather Co., Peabody, Mass.
J. E. CULLINEY, Bethlehem Steel Co., Bethlehem, Pa.
C. L. WAGNER, Carnegie Illinois Steel Corporation, Duquesne, Pa.
H. S. SIMPSON, Caterpillar Tractor Co., Peoria, Ill.
MELBOURNE F. SINNARD, Safety Branch, Office of Industrial Relations, Navy Department, Washington 25, D. C.
ROBERT W. WEBSTER, Alternate, Research and Standards Branch, Bureau of Ships, Navy Department, Washington 25, D. C.

HISTORY OF PROJECT

22. On September 22, 1941, the Industrial Safety Equipment Association voted to request the cooperation of the National Bureau of Standards in establishing a commercial standard for materials for safety wearing apparel.

23. Following receipt of this request, copies of a proposed commercial standard were circulated to selected representatives of producer, distributor, and user organizations for advance comment.

24. With the unqualified endorsement of a number of interested organizations, the recommended commercial standard for materials for safety wearing apparel was submitted to the entire trade for written acceptance on April 30, 1943. Having received acceptances in writing estimated to

represent a satisfactory majority, announcement was issued on March 5, 1946, that the standard would become effective for new production from May 6, 1946.

FIRST REVISION

25. In February 1947, the Standing Committee recommended that the standard be revised in order to raise the quality of the asbestos from Commercial to Underwriters' grade, and increase the minimum breaking strength.

26. Accordingly, a revision of the standard was developed and circulated to those concerned for written acceptance. This was done on March 25, 1947. Having received acceptances estimated to represent a satisfactory majority of production, and in the absence of valid opposition, the establishment of the standard was announced on May 20, 1947.

CS129–47

ACCEPTANCE OF COMMERCIAL STANDARD

If acceptance has not previously been filed, this sheet properly filled in, signed, and returned will provide for the recording of your organization as an acceptor of this commercial standard.

Date.....

Division of Trade Standards,
National Bureau of Standards,
Washington 25, D. C.

Gentlemen:

We believe that the Commercial Standard CS129–47 constitutes a useful standard of practice, and we individually plan to utilize it as far as practicable in the

Production[1] distribution[1] purchase[1] testing[1]

of materials for safety wearing apparel.

We reserve the right to depart from it as we deem advisable.

We understand, of course, that only those articles which actually comply with the standard in all respects can be identified or labeled as conforming thereto.

(Cut on this line)

Signature of authorized officer.....
(In ink)

(Kindly typewrite or print the following lines)

Name and title of above officer.....

Organization.....
(Fill in exactly as it should be listed)

Street address.....

City, Zone, and State.....

[1]Underscore which one. Please see that separate acceptances are filed for all subsidiary companies and affiliates which should be listed separately as acceptors. In the case of related interests, trade associations, trade papers, etc., desiring to record their general support, the words "General Support" should be added after the signature.

TO THE ACCEPTOR

The following statements answer the usual questions arising in connection with the acceptance and its significance:

1. *Enforcement.*—Commercial standards are commodity specifications voluntarily established by mutual consent of those concerned. They present a common basis of understanding between the producer, distributor, and consumer and should not be confused with any plan of governmental regulation or control. The United States Department of Commerce has no regulatory power in the enforcement of their provisions, but since they represent the will of the interested groups as a whole, their provisions through usage soon become established as trade customs, and are made effective through incorporation into sales contracts by means of labels, invoices, and the like.

2. *The acceptor's responsibility.*—The purpose of commercial standards is to establish for specific commodities, nationally recognized grades or consumer criteria and the benefits therefrom will be measurable in direct proportion to their general recognition and actual use. Instances will occur when it may be necessary to deviate from the standard and the signing of an acceptance does not preclude such departures; however, such signature indicates an intention to follow the commercial standard where practicable, in the production, distribution, or consumption of the article in question.

3. *The Department's responsibility.*—The major function performed by the Department of Commerce in the voluntary establishment of commercial standards on a Nation-wide basis is fourfold: first, to act as an unbiased coordinator to bring all interested parties together for the mutually satisfactory adjustment of trade standards; second, to supply such assistance and advice as past experience with similar programs may suggest; third, to canvass and record the extent of acceptances and adherence to the standard on the part of producers, distributors, and users; and fourth, after acceptance, to publish and promulgate the standard for the information and guidance of buyers and sellers of the commodity.

4. *Announcement and promulgation.*—When the standard has been endorsed by a satisfactory majority of production or consumption in the absence of active valid opposition, the success of the project is announced. If, however, in the opinion of the Standing Committee or the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and publication.

ACCEPTORS

27. The organizations listed below have individually accepted this standard for use as far as practicable in the production, distribution, testing or purchase of materials for safety wearing apparel. In accepting the standard, they reserved the right to depart therefrom as they individually deem advisable. It is expected that articles which actually comply with the requirements of this standard in all respects will be regularly identified or labeled as conforming thereto, and that purchasers will require such specific evidence of conformity.

ASSOCIATIONS
(General Support)

American Foundrymens Association, Chicago, Ill.
Cotton Textile Institute, Inc., The, New York N. Y.
Dairymen's League Co-Operative Association, Inc., New York, N. Y.
Industrial Safety Equipment Association, New York, N. Y.
National Association of Leather Glove Manufacturers, Inc., Gloversville, N. Y.
National Association of Wool Manufacturers, New York, N. Y.
Webbing Manufacturers Institute, New London, Conn.

FIRMS

Aball Asbestos Co., Newark, N. J.
Acme Safety Products Co., Akron, Ohio.
Alabama By-Products Corp., Birmingham, Ala.
Alabama Dry Dock Shipbuilding Co., Mobile, Ala.
Allegheny Ludlum Steel Corp., Brackenridge, Pa.
Allied Weld-Craft, Inc., Indianapolis, Ind.
American Forging & Socket Co., Pontiac, Mich.
American LaFrance-Foamite Corp., Elmira, N. Y.
American Optical Co., Southbridge, Mass.
American Radiator & Standard Sanitary Corp., Pittsburgh, Pa.
American Rolling Mill Co., The, Middletown, Ohio.
American Viscose Corp., New York, N. Y. (general support).
American Woolen Co., New York, N. Y.
Arkansas Natural Gas Corp., Shreveport, La.
Armstrong Cork Co., Lancaster, Pa.
Bagley & Sewall Co., The, Watertown, N. Y.
Bakelite Corp., Bound Brook, N. J.
Baldwin Locomotive Works, The, Eddystone, Pa.
Ball Brothers Co., Muncie, Ind.
Balmar Corp., The, Baltimore, Md.
Banner Iron Works, St. Louis, Mo.
Bartlett & Snow Co., The C. O., Cleveland, Ohio.
Bausch & Lomb Optical Co., Rochester, N. Y.
Beach Manufacturing Co., Charlotte, Mich.
Beaird Co., Ltd., J. B., Shreveport, La.
Bell Co., M. A., St. Louis, Mo.
Bethlehem Steel Co., Bethlehem, Pa.
Blaw-Knox Co., Pittsburgh, Pa.
Boston Woven Hose & Rubber Co., Cambridge, Mass.
Botwinik Bros., Inc., Hamden, New Haven, Conn.
Boyer-Campbell Co., The, Detroit, Mich.
Bullard Co., The, Bridgeport, Conn.
Bullard Co., E. D., San Francisco, Calif.
Bunker Hill & Sullivan Mining & Concentrating Co., Kellogg, Idaho.
Burke & Co., Inc., J. Franklin, New York, N. Y.
Carey Machinery & Supply Co., Baltimore, Md.
Carey Manufacturing Co., The Philip, Lockland, Cincinnati, Ohio.
Carolina Asbestos Co., Davidson, N. C.
Catalin Corp. of America, Fords, N. J.
Caterpillar Tractor Co., E. Peoria, Ill.
Central Iron & Steel Co., Harrisburg, Pa.
Charlottesville Woolen Mills, Charlottesville, Va.
Chicago Brick Co., Chicago, Ill.
Chicago Eye Shield Co., Chicago, Ill.
Chicago Hardware Foundry, N. Chicago, Ill.
Cleveland Cliffs Iron Co., Ishpeming, Mich.
Colorado Fuel & Iron Corp., Pueblo, Colo.
Combustion Engineering Co., Inc., Hedges-Walsh-Weidner Division, Chattanooga, Tenn.
Consolidated Iron Steel Manufacturing Co., The, Cleveland, Ohio.
Continental Steel Corp., Kokomo, Ind.
Corduroy Rubber Co., Grand Rapids, Mich.
Cutter, Wood & Sanderson Co., Cambridge, Mass.
Davenport Besler Corp., Davenport, Iowa.
Dennis Mitchell Industries, W. Philadelphia, Pa.
Detroit Testing Laboratory, The, Detroit, Mich.
Devoe & Raynolds Co., Inc., Malden, Mass.
Dollin Corp., Irvington, N. J.
Donald Sales & Manufacturing Co., Milwaukee, Wis.
Douglas Aircraft Co., Inc., Santa Monica, Calif.
Dresser Manufacturing Division, Dresser Industries, Inc., Bradford, Pa.
Eagle-Ottawa Leather Co., Grand Haven, Mich.
Eastman Kodak Co., Rochester, N. Y.
Eclipse Glass Co., Thomaston, Conn.
Edge Moor Iron Works, Inc., Edge Moor, Del.
Electro Refractories & Alloys Corp., Lackawanna, N. Y.
Ensco Derrick & Equipment Co., Los Angeles, Calif. (general support).
Enterprise Coal Mining Co., Garrett, Pa.
Fairchild Aircraft Corp., Hagerstown, Md.
Farnam Co., F. D., Chicago, Ill.
Federal Belting & Asbestos Co., Ltd., The, Toronto, Ontario, Canada.
Fenton Foundry Supply Co., The, Dayton, Ohio.
Fibre & Metal Products, Inc., Downey, Calif.
Follansbee Steel Corp., Pittsburgh, Pa.
Foote Mineral Co., Philadelphia, Pa.
Fort Pitt Bridge Works, Canonsburg, Pa.
Fulton Iron Works Co., St. Louis, Mo.
Gates-Mills, Inc. Johnstown, N. Y.
Gatke Corp., Chicago, Ill.
Gay Brothers Co., Cavendish, Vt.
Gebhardt Co., A. L., Milwaukee, Wis.

General Electric Co., Schenectady, N. Y.
General Iron Works Co., Denver, Colo.
General Machine Works, York, Pa.
Genter Co., C. D., Chattanooga, Tenn.
Geuder Paeschke & Frey Co., Milwaukee, Wis.
Gladding, McBean & Co., San Francisco, Calif.
Glascote Products, Inc., Cleveland, Ohio.
Great Lakes Carbon Corp., Chicago, Ill.
Great Lakes Steel Corp., Ecorse, Mich.
Greene, Tweed & Co., N. Wales, Pa.
Haddock Mining Co., Wilkes-Barre, Pa.
Hansell-Elcock Co., Chicago, Ill.
Hatch Textile Research, New York, N. Y.
Heller Brothers Co., Newark, N. J.
Hewitt Robins, Inc., Robins Conveyors Division, Passaic, N. J.
Hobart Brothers Co., The, Troy, Ohio.
House & Sons, Inc., Chas. W., Unionville, Conn.
Houze Convex Glass Co., L. J., Point Marion, Pa.
Hudson Bay Mining & Smelting Co., Ltd., Flin Flon, Manitoba, Canada.
Hudson Valley Fuel Corp., Troy, N. Y.
Huyck & Sons, F. C., Albany, N. Y.
Industrial By-Products & Research Co., Philadelphia, Pa.
Industrial Gloves Co., Danville, Ill.
Ingersoll Steel Division, Borg-Warner Corp., Chicago, Ill.
Inland Steel Co., E. Chicago, Ind.
Interstate Machinery & Supply Co., Omaha, Nebr.
Irvington Smelting & Refining Works, Irvington, N. J.
Jessopp Steel Co., Washington, Pa.
Jewel Paint & Varnish Co., Chicago, Ill.
Jewell Ridge Coal Corp., Jewell Ridge, Tazewell County, Va.
Jones & Naudin Co., Gloversville, N. Y.
Kelly Springfield Tire Co., The, Cumberland, Md.
Keystone Steel & Wire Co., Peoria, Ill.
Kimball Safety Products Co., Cleveland, Ohio.
Laclede Gas Light Co., The, St. Louis, Mo.
Lake Union Drydock Co., Seattle, Wash.
Lancaster Lens Co., The, Lancaster, Ohio.
Lawrence Leather Co., A. C., Peabody, Mass.
Lehigh Navigation Coal Co., Inc., Lansford, Pa.
Lewis Foundry & Machine Division, Blaw-Knox Co., Pittsburgh, Pa.
Lewyt Corp., Brooklyn, N. Y.
Link-Belt Co., Chicago, Ill.
Lockheed Aircraft Corp., Burbank, Calif.
Lummus Co., The, New York, N. Y.
MacAlpin Coal Co., Charleston, W. Va.
Mackintosh Hemphill Co., S. S., Pittsburgh, Pa.
Macy & Co., Inc., R. H., New York, N. Y.
Malleable Iron Fittings Co., Branford, Conn.
Mallory & Co., Inc., P. R., Indianapolis, Ind.
Mark & Co., Clayton, Evanston, Ill.
Martin Co., Glenn L., Middle River, Md.
McKay Co., The, Pittsburgh, Pa.
Merchandise Research Laboratories, Philadelphia, Pa.
Mesta Machine Co., Pittsburgh, Pa.
Michigan, University of, Ann Arbor, Mich.
Midwest Piping & Supply Co., Inc., St. Louis, Mo.
Milwaukee Gas Light Co., Milwaukee, Wis.
Mine Safety Appliances Co., Pittsburgh, Pa.
Mine & Smelter Supply Co., The, Denver, Colo.
Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.
Minneapolis Moline Power Implement Co., Minneapolis, Minn.
Minnesota Power & Light Co., Duluth, Minn.
Monsanto Chemical Co., Merrimac Division, Everett, Mass.
Montgomery Ward, Chicago, Ill.
Moore Dry Dock Co., Oakland, Calif.
Morrisdale Coal Mining Co., Morrisdale, Pa.
Mount Vernon-Woodberry Mills, Inc., New York, N. Y.
Nashville Bridge Co., Nashville, Tenn.
National Iron Works, San Diego, Calif.
National Refining Co., The, Cleveland, Ohio.
New York Power & Light Corp., Albany, N. Y.
Nilson Machine Co., The A. H., Bridgeport, Conn.
North American Aviation, Inc., Los Angeles, Calif.
Oat & Sons, Inc., Joseph, Philadelphia, Pa.
Ohio Oil Co., The, Findlay, Ohio.
Olsen Testing Machine Co., Tinius, Philadelphia, Pa.
Olympic Glove Co., Inc., The, New York, N. Y.
Pacific Car & Foundry Co., Renton, Wash.
Pacific Gas & Electric Co., San Francisco, Calif.
Parsons Co., The, Newton, Iowa.
Patterson Foundry & Machine Co., The, East Liverpool, Ohio.
Penn Anthracite Collieries Co., Scranton, Pa.
Penn Rivet & Machine Co., Philadelphia, Pa.
Pennsylvania, Commonwealth of, Department of Property & Supplies, Bureau of Standards, Harrisburg, Pa.
Peoples Gas Light & Coke Co., The, Chicago, Ill.
Pfaudler Co., The, Rochester, N. Y.
Phillips Doup & Co., Lindenhurst, N. Y.
Piper Aircraft Corp., Lock Haven, Pa.
Pittsburgh Midway Coal Mining Co., Pittsburg, Kans.
Pittsburgh Screw & Bolt Corp., Pittsburgh, Pa.
Pittsburgh Testing Laboratory, Pittsburgh, Pa.
Porter Co., Inc., H. K., Pittsburgh, Pa.
Potter & Johnston Machine Co., Pawtucket, R. I.
Powhatan Mining Co., The, Powhatan Point, Ohio.
Protective Equipment, Inc., Chicago, Ill.
Pulmosan Safety Equipment Corp., Brooklyn, N. Y.
Pulverizing Machinery Co., Summit, N. J.
Raniville Co., F., Grand Rapids, Mich.
Raybestos-Manhattan, Inc., General Asbestos & Rubber Division, N. Charleston, S. C., and Manheim, Pa.
Red Parrot Coal Co., Prenter, W. Va.
Riddell Corp., W. A., Bucyrus, Ohio.
Robinson Clay Product Co., The, Akron, Ohio.
Ryan Aeronautical Co., San Diego, Calif.
Safety Clothing & Equipment Co., Cleveland, Ohio.
Safety First Supply Co., Pittsburgh, Pa.
Sharon Steel Corp., Sharon, Pa.
Shenango Furnace Co., Pittsburgh, Pa.
Simmons Machine Tool Corp., Albany, N. Y.
Sinclair Refining Co., E. Chicago, Ind.
Sligo Iron Store Co., St. Louis, Mo.
Smith Co., S. Morgan, York, Pa.
Southern Asbestos Co., Charlotte, N. C.
Southport Paint Co., Savannah, Ga.
Spring Canyon Coal Co., Salt Lake City, Utah.
Sta-Warm Electric Co., Ravenna, Ohio.
Standard Asbestos Co., New York, N. Y.
Standard Asbestos Manufacturing Co., Chicago, Ill.
Standard Coal, Inc., Salt Lake City, Utah.
Standard Safety Equipment Co., Chicago, Ill.
Star Leather Co., Inc., Gloversville, N. Y.
Stearns Coal & Lumber Co., Stearns, Ky.
Steelcote Manufacturing Co., St. Louis, Mo.
Stoiner Steel Products Corp., Milwaukee, Wis.
Stone Supply Co., L. R., Kansas City, Kans.
Stupp Bros. Bridge & Iron Co., St. Louis, Mo.
Sun Shipbuilding & Dry Dock Co., Chester, Pa.
Sutton-Garten Co., Indianapolis, Ind.
Talbot Mills, Inc., N. Billerica, Mass.
Texas Co., The, New York, N. Y.
Thomas Machine Manufacturing Co., Pittsburgh, Pa.
Tillman & Co., John, Long Beach, Calif.
Tintic-Standard Mining Co., Salt Lake City, Utah.
Todd Shipyards Corp., Los Angeles Division, San Pedro, Calif.
Turner Halsey Co., New York, N. Y.
Union Asbestos & Rubber Co., Cicero, Ill.
United States Safety Service Co., Kansas City, Mo.
United States Testing Co., Inc., Hoboken, N. J.
Vanadium-Alloys Steel Co., Colonial Steel Division, Monaca, Pa.

Victor Manufacturing & Gasket Co., Chicago, Ill.
Welin Davit & Boat Corp., Perth Amboy, N. J.
Westinghouse Electric Corp., E. Pittsburgh, Pa.
Westmoreland Mining Co., Blairsville, Pa.
Wheeler Manufacturing Co., F. H., Chicago, Ill.
Wheeling Steel Corp., Wheeling, W. Va.
Whitlock Manufacturing Co., The, Elmwood, Conn.
Wiegand Co., Edwin L., Pittsburgh, Pa.
Wiggins Manufacturing Co., Seattle, Wash.
Williams, White & Co., Moline, Ill.
Williamson Heater Co., The, Cincinnati, Ohio.
Wisconsin Electric Power Co., Milwaukee, Wis.
Wood Steel Co., Alan, Conshohocken, Pa.
Woolley, W. P., Portland, Oreg.
Wyatt Coal Co., Charleston, W. Va.
Wyckoff Steel Co., Ambridge, Pa.
Youngstown Safety Supply Co., Youngstown, Ohio.
Zaremba Co., Buffalo, N. Y.

UNITED STATES GOVERNMENT

Agriculture, U. S. Department of, Division of Purchase, Sales & Traffic, Washington, D. C.
Federal Works Agency, Public Buildings Administration, Washington, D. C.
Labor, U. S. Department of, Washington, D. C.
Navy Department, Washington, D. C.
Tennessee Valley Authority, Wilson Dam, Ala.

COMMERCIAL STANDARDS

CS No.	Item
0–40.	Commercial standards and their value to business (third edition).
1–42.	Clinical thermometers (third edition).
2–30.	Mopsticks.
3–40.	Stoddard solvent (third edition).
4–29.	Staple porcelain (all-clay) plumbing fixtures.
5–46.	Pipe nipples; brass, copper, steel and wrought-iron (second edition).
6–31.	Wrought-iron pipe nipples (second edition). Superseded by CS5–46.
7–29.	Standard weight malleable iron or steel screwed unions.
8–41.	Gage blanks (third edition).
9–33.	Builders' template hardware (second edition).
10–29.	Brass pipe nipples. Superseded by CS5–46.
11–41.	Moisture regains of cotton yarns (second edition).
12–40.	Fuel oils (fifth edition).
13–44.	Dress patterns (fourth edition).
14–43.	Boys' button-on waists, shirts, junior and sport shirts (made from woven fabrics) (third edition).
15–46.	Men's pajama sizes (made from woven fabrics) (third edition).
16–29.	Wall paper.
17–42.	Diamond core drill fittings (third edition).
18–29.	Hickory golf shafts.
19–32.	Foundry patterns of wood (second edition).
20–42.	Staple vitreous china plumbing fixtures (third edition).
21–39.	Interchangeable ground-glass joints, stopcocks, and stoppers (fourth edition).
22–40.	Builders' hardware (nontemplate) (second edition).
23–30.	Feldspar.
24–43.	Screw threads and tap-drill sizes.
25–30.	Special screw threads. Superseded by CS24–43.
26–30.	Aromatic red cedar closet lining.
27–36.	Mirrors (second edition).
28–46.	Cotton fabric tents, tarpaulins and covers (second edition).
29–31.	Staple seats for water-closet bowls.
30–31.	Colors for sanitary ware.
31–38.	Wood shingles (fourth edition).
32–31.	Cotton cloth for rubber and pyroxylin coating.
33–43.	Knit underwear (exclusive of rayon) (second edition).
34–31.	Bag, case, and strap leather.
35–47.	Hardwood plywood (third edition).
36–33.	Fourdrinier wire cloth (second edition).
37–31.	Steel bone plates and screws.
38–32.	Hospital rubber sheeting.
39–37.	Wool and part wool blankets (second edition). (Withdrawn as commercial standard, July 14, 1941).
40–32.	Surgeons' rubber gloves.
41–32.	Surgeons' latex gloves.
42–43.	Structural fiber insulating board (third edition).
43–32.	Grading of sulphonated oils.
44–32.	Apple wraps.
45–46.	Douglas fir plywood (sixth edition).
46–40.	Hosiery lengths and sizes (third edition).
47–34.	Marking of gold-filled and rolled-gold-plate articles other than watchcases.
48–40.	Domestic burners for Pennsylvania anthracite (underfeed type) (second edition).
49–34.	Chip board, laminated chip board and miscellaneous boards for bookbinding purposes.
50–34.	Binders board for bookbinding and other purposes.
51–35.	Marking articles made of silver in combination with gold.
52–35.	Mohair pile fabrics (100 percent mohair plain velvet, 100 percent mohair plain frieze, and 50 percent mohair plain frieze).
53–35.	Colors and finishes for cast stone.
54–35.	Mattresses for hospitals.
55–35.	Mattresses for institutions.
56–41.	Oak flooring (second edition).
57–40.	Book cloths, buckrams, and impregnated fabrics for bookbinding purposes except library bindings (second edition).
58–36.	Woven elastic fabrics for use in overalls (overall elastic webbing).
59–44.	Textiles — testing and reporting (fourth edition).
60–36.	Hardwood dimension lumber.
61–37.	Wood-slat venetian blinds.
62–38.	Colors for kitchen accessories.
63–38.	Colors for bathroom accessories.
64–37.	Walnut veneers.
65–43.	Methods of analysis and of reporting fiber composition of textile products (second edition).
66–38.	Marking of articles made wholly or in part of platinum.
67–38.	Marking articles made of karat gold.
68–38.	Liquid hypochlorite disinfectant, deodorant, and germicide.
69–38.	Pine oil disinfectant.
70–41.	Phenolic disinfectant (emulsifying type) (second edition) (published with CS71–41).
71–41.	Phenolic disinfectant (soluble type) (second edition) (published with CS70–41).
72–38.	Household insecticide (liquid spray type).
73–45.	Old growth Douglas fir standard stock doors (third edition).
74–39.	Solid hardwood wall paneling.
75–42.	Automatic mechanical draft oil burners designed for domestic installations (second edition).
76–39.	Hardwood interior trim and molding.
77–40.	Sanitary cast iron enameled ware.
78–40.	Ground-and polished lenses for sun glasses (second edition) (published with CS79–40).
79–40.	Blown, drawn, and dropped lenses for sun glasses (second edition) (published with CS78–40).
80–41.	Electric direction signal systems other than semaphore type for commercial and other vehicles subject to special motor vehicle laws (after market).
81–41.	Adverse-weather lamps for vehicles (after market).
82–41.	Inner-controlled spotlamps for vehicles (after market).

CS No.	Item
83–41.	Clearance, marker, and identification lamps for vehicles (after market).
84–41.	Electric tail lamps for vehicles (after market).
85–41.	Electric license-plate lamps for vehicles (after market).
86–41.	Electric stop lamps for vehicles (after market).
87–41.	Red electric warning lanterns.
88–41.	Liquid-burning flares.
89–40.	Hardwood stair treads and risers.
90– .	(Reserved for power shovels and cranes).
91–41.	Factory-fitted Douglas fir entrance doors.
92–41.	Cedar, cypress and redwood tank stock lumber.
93–41.	Portable electric drills (exclusive of high frequency).
94–41.	Calking lead.
95–41.	Lead pipe.
96–41.	Lead traps and bends.
97–42.	Electric supplementary driving and passing lamps for vehicles (after market).
98–42.	Artists' oil paints.
99–42.	Gas floor furnaces—gravity circulating type.
100–44.	Porcelain-enameled steel utensils (second edition).
101–43.	Flue-connected oil-burning space heaters equipped with vaporizing pot-type burners.
102– .	(Reserved for Diesel and fuel-oil engines).
103–42.	Cotton and rayon velour (jacquard and plain).
104–46.	Warm-air furnaces equipped with vaporizing pot-type oil burners (second edition).
105–43.	Mineral wool; loose, granulated, or felted form, in low-temperature installations.
106–44.	Boys' pajama sizes (woven fabrics) (second edition).
107–45.	Commercial electric-refrigeration condensing units (second edition).
108–43.	Treading automobile and truck tires.
109–44.	Solid-fuel-burning forced-air furnaces.
110–43.	Tire repairs—vulcanized (passenger truck, and bus tires).
111–43.	Earthenware (vitreous-glazed) plumbing fixtures.
112–43.	Homogeneous fiber wallboard.
113–44.	Oil-burning floor furnaces equipped with vaporizing pot-type burners.
114–43.	Hospital sheeting for mattress protection.
115–44.	Porcelain-enameled tanks for domestic use.
116–44.	Bituminized-fibre drain and sewer pipe.
117–44.	Mineral wool; blankets, blocks, insulating cement, and pipe insulation for heated industrial equipment.
118–44.	Marking of jewelry and novelties of silver.
(E)119–45.[1]	Dial indicators (for linear measurements).
120–46.	Standard stock ponderosa pine doors (second edition).
121–45.	Women's slip sizes (woven fabrics).
122–45.	Western hemlock plywood.
123–45.	Grading of diamond powder.
(E)124–45.[1]	Master disks.
125–45.	Prefabricated homes.
126–45.	Tank mounted air compressors.
127–45.	Self-contained mechanically refrigerated drinking water coolers.
128–45.	Men's sport shirt sizes—woven fabrics (other than those marked with regular neckband sizes).
129–47.	Materials for safety wearing apparel (second edition).
130–46.	Color materials for art education in schools.
131–46.	Industrial mineral wool products, all types—testing and reporting.
132–46.	Hardware cloth.
133–46.	Woven wire netting.
134–46.	Cast aluminum cooking utensils (metal composition).
135–46.	Men's shirt sizes (exclusive of work shirts).
136–46.	Blankets for Hospitals (wool, and wool and cotton.)
137–46.	Size measurements for men's and boys' shorts (woven fabrics).
138–47.	Insect wire screening.
139–47.	Work gloves.
140–47.	Convectors: testing and rating.
141–47.	Sine bars, blocks, plates and fixtures.

NOTICE.—Those interested in commercial standards with a view toward accepting them as a basis of everyday practice may secure copies of the above standards, while the supply lasts, by addressing the Division of Trade Standards, National Bureau of Standards, Washington 25, D. C.

[1]Where "(E)" precedes the CS number, it indicates an emergency commercial standard, drafted under war conditions with a view toward early revision.

★U. S. GOVERNMENT PRINTING OFFICE: 1947—744463

FEDERAL REGISTER

DEPARTMENT OF COMMERCE

National Bureau of Standards

VOLUNTARY PRODUCT STANDARDS

Notice of Action on Proposed Withdrawal

In accordance with the provisions of § 10.12 of the Department's published "Procedures for the Development of Voluntary Product Standards" (15 CFR Part 10, as amended; 35 F.R. 8349 dated May 28, 1970), notice is hereby given of the withdrawal of the 36 commerical standards (CS) and 25 simplified practice recommendations (SPR) identified below. Each of these standards has been found to be obsolete, no longer technically adequate, no longer generally acceptable to and used by the industry, inconsistent with established policy, or otherwise inappropriate, and revision is not feasible or would serve no useful purpose.

CS 14–51 Boys' sport and dress shirt (woven fabrics) size measurements.
CS 33–43 Knit underwear (exclusive of rayon).
CS 56–60 Strip oak flooring.
CS 70–41 Phenolic disinfectant (emulsifying type).
CS 71–41 Phenolic disinfectant (soluble type).
CS 90–58 Power cranes and shovels.
CS 101–63 Flue-connected oil-burning space heaters and recessed heaters with vaporizing pot-type burners.
CS 104–63 Warm-air furnaces equipped with vaporizing-type oil burners.
CS 106–57 Boys' pajama sizes (woven fabrics).
CS 109–44 Solid-fuel-burning forced-air furnaces.
CS 111–43 Earthenware (vitreous-glazed) plumbing fixtures.
CS 113–63 Oil-burning floor furnaces equipped with vaporizing pot-type burners.
CS 128–52 Men's sport shirt sizes—woven fabrics (other than those marked with regular neckband sizes).
CS 129–47 Materials for safety wearing apparel.
CS 131–46 Industrial mineral wool products, all types—testing and reporting.
CS 134–46 Cast aluminum cooking utensils (metal composition).
CS 135–46 Men's shirt sizes (exclusive of of work shirts).
CS 145–47 Testing and rating hand-fired hot water supply boilers.
CS 152–48 Copper naphthenate wood preservative (spray, brush, dip applications).
CS 158–49 Model forms for girls' apparel.
CS–165–50 Zinc naphthenate wood preservative (spray, brush, dip applications).
CS 174–41 140-F drycleaning solvent.
CS 177–62 Bituminous-coated metal septic tanks (residential).
CS 178–51 Testing and rating ventilating fans (axial and propeller types).
CS 180–52 Model forms for boys' apparel.
CS 183–51 Boys' trouser size measurements.
CS 185–52 Wool felt.
CS 186–52 Boys' sport outerwear size measurements.
CS 195–60 Warm-air furnace burner units equipped with pressure-atomizing or rotary type oil burners.
CS 196–55 Model forms for toddlers' and children's apparel.
CS 198–55 Infants', children's, girls' and boys' knit underwear (exclusive of rayon, acetate, and nylon).
CS 216–58 Asphalt insulating siding.
CS 235–61 Pressure treated wood fence posts (with oil-type preservatives).
CS 249–62 Pressure-treated Douglas fir marine piles.
CS 250–62 Pressure-treated southern pine marine piles.
CS 271–65 Grading of abrasive grain for grinding wheels.
SPR 17–47 Heavy forged hand tools.
SPR 44–49 Boxboard thicknesses.
SPR 60–55 Machine, carriage and lag bolts, and nuts (case quantity and gross weight).
SPR 72–27 Solid section steel windows.
SPR 77–45 Hickory handles.
SPR 100–47 Welded chain.
SPR 125–31 Waxed tissue paper.
SPR 136–32 Flax and hemp twine.
SPR 147–42 Wire diameters for mineral aggregate production screens.
SPR 157–50 Steel firebox boilers and steel heating boilers (commercial and residential).
SPR 168–37 Braided shoe laces.
SPR 180–41 Copper conductors for building purposes.
SPR 183–46 Brass or bronze valves (gate, globe, angle, and check).
SPR 184–47 Iron valves (gate, globe, angle, and check).
SPR 185–47 Pipe fittings (gray cast-iron, malleable iron, and brass or bronze).
SPR 190–42 Stove pipe and accessories.
SPR 198–50 Wire rope.
SPR 207–60 Pipes, ducts and fittings for warm air heating and air-conditioning systems.
SPR 214–55 Metal-cutting band saws (hard edge flexible back).
SPR 220–46 Open-end and box wrenches.
SPR 227–47 Plumbing fixture fittings and trim for housing.
SPR 229–63 Vises (machinists' and other bench-mounted vises).
SPR 238–50 Convectors.
SPR 245–51 Weldless chain and chain products.
SPR 259–56 Hexagon-head cap screws (case quantity and gross weight).

Public notice of the intention to withdraw these standards was published in the FEDERAL REGISTER on June 21, 1972 (37 F.R. 12248), and a 45-day period was provided for the submission of comments or objections concerning the proposed withdrawal of any of these standards. No valid objections to the withdrawal of any of these standards have been received by the National Bureau of Standards.

The effective date for the withdrawal of these standards will be 60 days after the publication of this notice. This withdrawal action terminates the authority to refer to these standards as voluntary product standards developed under the Department of Commerce Procedures.

LAWRENCE M. KUSHNER,
Acting Director.

AUGUST 18, 1972.

[FR Doc.72-14465 Filed 8-23-72;8:57 am]

FEDERAL REGISTER

DEPARTMENT OF COMMERCE

National Bureau of Standards

VOLUNTARY PRODUCT STANDARDS

Notice of Intent To Withdraw Certain Standards

In accordance with § 10.12 of the Department of Commerce Procedures for the Development of Voluntary Product Standards (15 CFR Part 10, as revised, 35 F.R. 8349 dated May 28, 1970), notice is hereby given of the Department's intent to withdraw the 62 standards identified below. It has been tentatively determined that each of these Commercial Standards (CS) and Simplified Practice Recommendations (SPR) are obsolete, no longer technically adequate, no longer generally acceptable to and used by the industry, inconsistent with established policy, or otherwise inappropriate, and revision is not feasible or would serve no useful purpose.

CS 14–51 Boys' Sport and Dress Shirt (Woven Fabrics) Size Measurements.
CS 33–43 Knit Underwear (Exclusive of Rayon).
CS 56–60 Strip Oak Flooring.
CS 70–41 Phenolic Disinfectant (Emulsifying Type).
CS 71–41 Phenolic Disinfectant (Soluble Type).
CS 90–58 Power Cranes and Shovels.
CS 101–63 Flue-Connected Oil-Burning Space Heaters and Recessed Heaters with Vaporizing Pot-Type Burners.
CS 104–63 Warm-Air Furnaces Equipped with Vaporizing-Type Oil Burners.
CS 106–57 Boys' Pajama Sizes (Woven Fabrics).
CS 109–44 Solid-Fuel-Burning Forced-Air Furnaces.
CS 111–43 Earthenware (Vitreous-Glazed) Plumbing Fixtures.
CS 113–63 Oil-Burning Floor Furnaces Equipped with Vaporizing Pot-Type Burners.
CS 128–52 Men's Sport Shirt Sizes-Woven Fabrics (Other than Those Marked with Regular Neckband Sizes).
CS 129–47 Materials for Safety Wearing Apparel.
CS 131–46 Industrial Mineral Wool Products, All Types—Testing and Reporting.
CS 134–46 Cast Aluminum Cooking Utensils (Metal Composition).
CS 135–46 Men's Shirt Sizes (Exclusive of Work Shirts).
CS 145–47 Testing and Rating Hand-Fired Hot Water Supply Boilers.
CS 152–48 Copper Naphthenate Wood Preservative (Spray, Brush, Dip Applications).
CS 158–49 Model Forms for Girls' Apparel.
CS 165–50 Zinc Naphthenate Wood Preservative (Spray, Brush, Dip Applications).
CS 174–41 140-F Drycleaning Solvent.
CS 177–62 Bituminous-Coated Metal Septic Tanks (Residential).
CS 178–51 Testing and Rating Ventilating Fans (Axial and Propeller Types).
CS 180–52 Model Forms for Boys' Apparel.
CS 183–51 Boys' Trouser Size Measurements.
CS 185–52 Wool Felt.
CS 186–52 Boys' Sport Outerwear Size Measurements.
CS 195–60 Warm-Air Furnace Burner Units Equipped with Pressure-Atomizing or Rotary Type Oil Burners.
CS 196–55 Model Forms for Toddlers' and Children's Apparel.
CS 198–55 Infants', Children's, Girls' and Boys' Knit Underwear (Exclusive of Rayon, Acetate, and Nylon).
CS 216–58 Asphalt Insulating Siding.
CS 235–61 Pressure Treated Wood Fence Posts (With Oil-Type Preservatives).
CS 249–62 Pressure-Treated Douglas Fir Marine Piles.
CS 250–62 Pressure-Treated Southern Pine Marine Piles.
CS 271–65 Grading of Abrasive Grain for Grinding Wheels.
SPR 17–47 Heavy Forged Hand Tools.
SPR 44–49 Boxboard Thicknesses.
SPR 60–55 Machine, Carriage and Lag Bolts, and Nuts (Case Quantity and Gross Weight).
SPR 72–27 Solid Section Steel Windows.
SPR 77–45 Hickory Handles.
SPR 100–47 Welded Chain.
SPR 125–31 Waxed Tissue Paper.
SPR 136–32 Flax and Hemp Twine.
SPR 147–42 Wire Diameters for Mineral Aggregate Production Screens.
SPR 157–50 Steel Firebox Boilers and Steel Heating Boilers (Commercial and Residential).
SPR 163–48 Coarse Aggregates (Crushed Stone, Gravel, and Slag).
SPR 168–37 Braided Shoe Laces.
SPR 180–41 Copper Conductors for Building Purposes.
SPR 183–46 Brass or Bronze Valves (Gate, Globe, Angle, and Check).
SPR 184–47 Iron Valves (Gate, Globe, Angle, and Check).
SPR 185–47 Pipe Fittings (Gray Cast-Iron, Malleable Iron, and Brass or Bronze).
SPR 190–42 Stove Pipe and Accessories.
SPR 198–50 Wire Rope.
SPR 207–60 Pipes, Ducts, and Fittings for Warm Air Heating and Air-Conditioning Systems.
SPR 214–55 Metal-Cutting Band Saws (Hard Edge Flexible Back).
SPR 220–46 Open-End and Box Wrenches.
SPR 227–47 Plumbing Fixture Fittings and Trim for Housing.
SPR 229–63 Vises (Machinists' and Other Bench-Mounted Vises).
SPR 238–50 Convectors.
SPR 245–51 Weldless Chain and Chain Products.
SPR 259–56 Hexagon-Head Cap Screws (Case Quantity and Gross Weight).

Any comments or objections concerning the intended withdrawal of any of these standards should be made in writing and directed to the Office of Engineering Standards Services, National Bureau of Standards, Washington, D.C. 20234, within 45 days of the publication of this notice. The effective date of withdrawal, where appropriate, will be not less than 60 days after the final notice of withdrawal. Withdrawal action terminates the authority to refer to a published standard as a voluntary standard developed under the Department of Commerce procedures, from the effective date of the withdrawal.

Dated: June 16, 1972.

LAWRENCE M. KUSHNER,
Acting Director.

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